



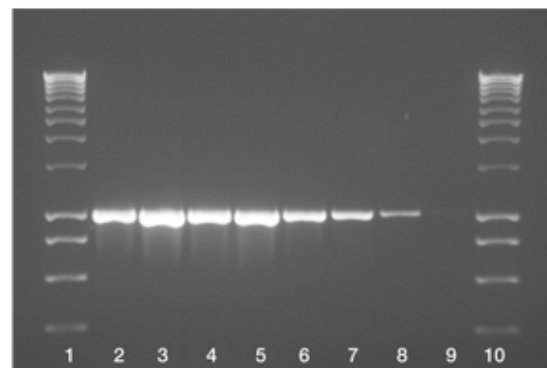
High-Fidelity DNA Polymerase

- Offers high fidelity coupled with robust activity
- Amplifies fragments up to 5Kb
- Can exhibit up to 46x greater accuracy than standard Taq (depending on reaction conditions)
- Produces blunt ends

PHENIX High-Fidelity DNA Polymerase is a thermostable enzyme possessing 5'-3' DNA polymerase and 3'-5' proofreading exonuclease activities, offering high fidelity. High-Fidelity DNA Polymerase produces blunt-ended amplicons of up to 5Kb in length.

PHENIX High-Fidelity DNA Polymerase is supplied with 10x Reaction Buffer containing MgSO₄, which provides optimal final reaction conditions (1.5mM Mg²⁺) for most experiments. In order to allow optimization of reaction conditions, additional MgCl₂ is provided.

The specificity and performance of High-Fidelity DNA Polymerase can be further improved with the use of 2x PolyMate Additive, which is designed for GC or AT-rich DNA, "dirty" templates or sequences with a high level of secondary structure.



High Performance with High-Fidelity DNA Polymerase

A serial dilution of template was performed to demonstrate the high performance of High-Fidelity DNA Polymerase, even at low DNA concentrations.

Lane 1 & 10: Hyperladder I

Lane 2: 0.5ng λ DNA

Lane 3-9: 10-fold dilution series

Ordering Information

Cat No	Description	Unit	Price
DNP-HF104	PCR Enzyme for reduced error rates (mutagenesis etc)	250u	\$95.00
DNP-HF204	PCR Enzyme for reduced error rates (mutagenesis etc)	500u	155.00

Other High Fidelity DNA Products

DNP-HF108	High-Fidelity Enzyme in a Ready-To-Go 2x Mix	100 Rxns	\$65.00
DNP-HF208	High-Fidelity Enzyme in a Ready-To-Go 2x Mix	500 Rxns	280.00